

**ABSTRACT**

5        In a VCT system having a phaser and pulse wheels on driving and driven shafts respectively in which the pulse wheels have known tooth distribution thereon, a device and method is used for adjusting values of a controller that controls the timing between the driving and driven shaft. Additional subroutines are performed with respect to the driving shaft tooth wheel and the driven shaft tooth wheel respectively. The known tooth distribution includes non-symmetric tooth distribution.